BRAIN RESEARCH

VOL. 700 NOS. 1,2 CONTENTS 27 NOVEMBER 1995

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Research reports

Cortical stimulation induces Fos expression in striatal neurons via NMDA glutamate and dopamine receptors
I. Liste, G. Rozas, M.J. Guerra and J.L. Labandeira-Garcia (Spain) 1

Spatial and sub-cellular localization of the membrane cytoskeleton-associated protein α-adducin in the rat brain
B. Seidel, W. Zuschratter, H. Wex, C.C. Garner and E.D. Gundelfinger (Germany, USA) 13

Ultrastructural localization of δ-opioid receptor and Met^5-enkephalin immunoreactivity in rat insular cortex
A.L. Svingos, P.Y. Cheng, C.L. Clarke and V.M. Pickel (USA) 25

Developmental changes of ganglioside expressions in postnatal rat cerebellar cortex
M. Kotani, T. Terashima and T. Tai (Japan) 40

Involvement of cyclic AMP at the level of the nucleus reticularis pontis caudalis in the acoustic startle response
T.C.M. De Lima and M. Davis (USA) 59

A pharmacological study of the modulation of neuronal and behavioural nociceptive responses in the rat trigeminal region
P.M.B. Cahusac, R. Morris and R.G. Hill (UK) 70

Selective transport of blood-borne interleukin-1α into the posterior division of the septum of the mouse brain
L.M. Maness, W.A. Banks, J.E. Zadina and A.J. Kastin (USA) 83

The cloned μ, δ and κ receptors and their endogenous ligands: Evidence for two opioid peptide recognition cores
A. Mansour, M.T. Hoversten, L.P. Taylor, S.J. Watson and H. Akil (USA) 89

Effect of repeated methamphetamine administrations on dopamine and glutamate efflux in rat prefrontal cortex
S.E. Stephans and B.K. Yamamoto (USA) 99

Estimation of oxytocin mRNA in the human paraventricular nucleus in AIDS by means of quantitative in situ hybridization
S.E.F. Guldenaar and D.F. Swaab (The Netherlands) 107

Pharmacological characterization of grooming induced by a selective NK-1 tachykinin receptor agonist
A.J. Stoessl, M. Brackstone, N. Rajakumar and C.J. Gibson (Canada) 115

Parellel metabolic and feeding responses to lateral hypothalamic stimulation
M.-P. Ruffin, R. Caulliez and S. Nicolaidis (France) 121

[^{14}C]2-Deoxyglucose uptake in the brain of the ring dove (*Streptopelia risoria*). I. Prolactin-induced uptake
R.W. Lea, G.C. Georgiou, Q. Li, R.J. Sterling and P.J. Sharp (UK) 129

[^{14}C]2-Deoxyglucose uptake in the brain of the ring dove (*Streptopelia risoria*). II. Differential uptake at the onset of incubation
G.C. Georgiou, P.J. Sharp and R.W. Lea (UK) 137

$GABA_A$-receptor subunit composition in the circadian timing system
B. Gao, J.-M. Fritschy and R.Y. Moore (USA, Switzerland) 142

Retrograde axonal transport of the α subunit of the GTP-binding protein G_z to the nucleus of sensory neurons
I.A. Hendry, S.O. Johanson and K. Heydon (Australia) 157

Cutaneous nociceptive facilitation of Ib heteronymous pathways to lower limb motoneurones in humans
A. Rossi and B. Decchi (Italy) 164

Simultaneous activation of spinal antiopioid system (neuropeptide FF) and pain facilitatory circuitry by stimulation of opioid receptors in rats
J.-P. Devillers, F. Boisserie, J.-P. Laulin, A. Larcher and G. Simonnet (France) 173

Effects of MK801 on Fos expression in the rat brainstem after unilateral labyrinthectomy
T. Kitahara, N. Takeda, T. Saika, T. Kubo and H. Kiyama (Japan) 182

Response of newborn and adult sheep to pyrogens: relation between fever and brain eicosanoid changes
F. Coceani, I. Bishai, D. Engelberts, R.V. House and S.L. Adamson (Canada, USA) 191

General, μ and κ opioid antagonists in the nucleus accumbens alter food intake under deprivation, glucoprivic and palatable conditions
R.J. Bodnar, M.J. Glass, A. Ragnauth and M.L. Cooper (USA) 205

Prejunctional modulation of nitroxidergic nerve function in canine cerebral arteries
N. Toda, M. Uchiyama and T. Okamura (Japan) 213

Effects of intracerebroventricular administration of pituitary adenylate cyclase-activating polypeptide (PACAP) on the motor activity and reserpine-induced hypothermia in murines
Y. Masuo, J. Noguchi, S. Morita and Y. Matsumoto (Japan) 219

Effects of micromolar and nanomolar calcium concentrations on non-synaptic bursting in the hippocampal slice
P.L. Watson and R.D. Andrew (Canada) 227

(contents continued on p. 312)

0006-8993(19951127)700:1/2;1-#

BRAIN RESEARCH

VOL. 700 NOS. 1,2 CONTENTS 27 NOVEMBER 1995

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Research reports

Cortical stimulation induces Fos expression in striatal neurons via NMDA glutamate and dopamine receptors
I. Liste, G. Rozas, M.J. Guerra and J.L. Labandeira-Garcia (Spain) 1

Spatial and sub-cellular localization of the membrane cytoskeleton-associated protein α-adducin in the rat brain
B. Seidel, W. Zuschratter, H. Wex, C.C. Garner and E.D. Gundelfinger (Germany, USA) 13

Ultrastructural localization of δ-opioid receptor and Met^5-enkephalin immunoreactivity in rat insular cortex
A.L. Svingos, P.Y. Cheng, C.L. Clarke and V.M. Pickel (USA) 25

Developmental changes of ganglioside expressions in postnatal rat cerebellar cortex
M. Kotani, T. Terashima and T. Tai (Japan) 40

Involvement of cyclic AMP at the level of the nucleus reticularis pontis caudalis in the acoustic startle response
T.C.M. De Lima and M. Davis (USA) 59

A pharmacological study of the modulation of neuronal and behavioural nociceptive responses in the rat trigeminal region
P.M.B. Cahusac, R. Morris and R.G. Hill (UK) 70

Selective transport of blood-borne interleukin-1α into the posterior division of the septum of the mouse brain
L.M. Maness, W.A. Banks, J.E. Zadina and A.J. Kastin (USA) 83

The cloned μ, δ and κ receptors and their endogenous ligands: Evidence for two opioid peptide recognition cores
A. Mansour, M.T. Hoversten, L.P. Taylor, S.J. Watson and H. Akil (USA) 89

Effect of repeated methamphetamine administrations on dopamine and glutamate efflux in rat prefrontal cortex
S.E. Stephans and B.K. Yamamoto (USA) 99

Estimation of oxytocin mRNA in the human paraventricular nucleus in AIDS by means of quantitative in situ hybridization
S.E.F. Guldenaar and D.F. Swaab (The Netherlands) 107

Pharmacological characterization of grooming induced by a selective NK-1 tachykinin receptor agonist
A.J. Stoessl, M. Brackstone, N. Rajakumar and C.J. Gibson (Canada) 115

Parellel metabolic and feeding responses to lateral hypothalamic stimulation
M.-P. Ruffin, R. Caulliez and S. Nicolaidis (France) 121

[^{14}C]2-Deoxyglucose uptake in the brain of the ring dove (*Streptopelia risoria*). I. Prolactin-induced uptake
R.W. Lea, G.C. Georgiou, Q. Li, R.J. Sterling and P.J. Sharp (UK) 129

[^{14}C]2-Deoxyglucose uptake in the brain of the ring dove (*Streptopelia risoria*). II. Differential uptake at the onset of incubation
G.C. Georgiou, P.J. Sharp and R.W. Lea (UK) 137

$GABA_A$-receptor subunit composition in the circadian timing system
B. Gao, J.-M. Fritschy and R.Y. Moore (USA, Switzerland) 142

Retrograde axonal transport of the α subunit of the GTP-binding protein G_z to the nucleus of sensory neurons
I.A. Hendry, S.O. Johanson and K. Heydon (Australia) 157

Cutaneous nociceptive facilitation of Ib heteronymous pathways to lower limb motoneurones in humans
A. Rossi and B. Decchi (Italy) 164

Simultaneous activation of spinal antiopioid system (neuropeptide FF) and pain facilitatory circuitry by stimulation of opioid receptors in rats
J.-P. Devillers, F. Boisserie, J.-P. Laulin, A. Larcher and G. Simonnet (France) 173

Effects of MK801 on Fos expression in the rat brainstem after unilateral labyrinthectomy
T. Kitahara, N. Takeda, T. Saika, T. Kubo and H. Kiyama (Japan) 182

Response of newborn and adult sheep to pyrogens: relation between fever and brain eicosanoid changes
F. Coceani, I. Bishai, D. Engelberts, R.V. House and S.L. Adamson (Canada, USA) 191

General, μ and κ opioid antagonists in the nucleus accumbens alter food intake under deprivation, glucoprivic and palatable conditions
R.J. Bodnar, M.J. Glass, A. Ragnauth and M.L. Cooper (USA) 205

Prejunctional modulation of nitroxidergic nerve function in canine cerebral arteries
N. Toda, M. Uchiyama and T. Okamura (Japan) 213

Effects of intracerebroventricular administration of pituitary adenylate cyclase-activating polypeptide (PACAP) on the motor activity and reserpine-induced hypothermia in murines
Y. Masuo, J. Noguchi, S. Morita and Y. Matsumoto (Japan) 219

Effects of micromolar and nanomolar calcium concentrations on non-synaptic bursting in the hippocampal slice
P.L. Watson and R.D. Andrew (Canada) 227

(contents continued on p. 312)

0006-8993(19951127)700:1/2;1-#

(contents continued)

Optical recording from cerebellar Purkinje cells using intracellularly injected voltage-sensitive dyes
A. Kogan, W.N. Ross, D. Zecevic and N. Lasser-Ross (Israel, USA) 235
Graded action potentials generated by neurons in rat hypothalamic slices
S. Johansson, A.K. Sundgren and V. Klimenko (Sweden, Russia) 240
Effects of age on messenger RNA expression of glucocorticoid, thyroid hormone, androgen, and estrogen receptors in postmortem human hippocampus
H. Tohgi, K. Utsugisawa, M. Yamagata and M. Yoshimura (Japan) 245
Neurotrophin-4/5 postpones the death of injured spinal motoneurons in newborn rats
H. Schmalbruch and A. Rosenthal (Denmark, USA) 254
Identification of a 140 kDa protein of rat presynaptic terminal membranes encompassing the active zones
A. Stieber, Y. Chen, J. Gonatas, W. Dougall, X. Qian, D. O'Rourke, A. Samanta, M.I. Greene and N.K. Gonatas (USA) 261
The opposing effects of interleukin-1β microinjected into the preoptic hypothalamus and the ventromedial hypothalamus on nociceptive behavior in rats
T. Oka, K. Oka, M. Hosoi, S. Aou and T. Hori (Japan) 271

Short communications

The effect of a unilateral inflammation at the rat's ankle joint on the expression of preprotachykinin-A mRNA and preprosomatostatin mRNA in dorsal root ganglion cells — a study using non-radioactive in situ hybridization
U. Hanesch, F. Blecher, R.U. Stiller, P.C. Emson, H.-G. Schaible and B. Heppelmann (Germany, UK) 279
Developmental immunohistochemistry of the 22 kDa peroxisomal membrane protein in the human brain
T. Miyawaki, O. Sohma, Y. Suzuki and S. Takashima (Japan) 285
NMDA receptors mediate heat shock protein induction in the mouse brain following administration of the ibotenic acid analogue AMAA
A.M. Planas, I. Ferrer and E. Rodríguez-Farré (Spain) 289
Small neurons in the vestibular nerve root project to the marginal shell of the anteroventral cochlear nucleus in the cat
H.B. Zhao, K. Parham, S. Ghoshal and D.O. Kim (USA) 295
Metabotropic glutamate antagonist, MCPG, treatment of traumatic brain injury in rats
Q.-Z. Gong, T.M. Delahunty, R.J. Hamm and B.G. Lyeth (USA) 299
The effects of vision and task complexity on Hoffmann reflex gain
M.A. Hoffman and D.M. Koceja (USA) 303

Corrigendum 308

Author Index 309